



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8103-1SM02-1LA1

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data

		P _N [kW]	M _N [Nm]	I _N [A]	U _N [V]	f _N [Hz]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max} [rpm]	M ₀ [Nm]	I ₀ [A]	η	cos φ	I _μ [A]
Y	ALM 400V	9.3	27.0	25.7	326	112.1	3,300	100	93.0	12,000	38.0	31	0.900	0.780	12.2
	BLM/SLM 400V	8.4	27.0	25.7	297	102.1	3,000	100	93.0	12,000	38.0	31	0.900	0.780	12.2
	ALM/BLM/SLM 480V	10.0	27.0	25.4	355	122.1	3,600	100	93.0	12,000	38.0	31	0.910	0.770	12.3

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder 19 bit without commutation position (encoder IN19DQ)

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.13 A
3 AC 400 V / 60 Hz (±10%)	0.09 A
3 AC 480 V / 60 Hz (±10%)	0.13 A

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Physical constants

Thermal time constant	20 min
Moment of inertia	172 kgcm ²
Weight (approx.)	51 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk813

Cooling data and sound pressure level

Airflow, min.	0.04 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

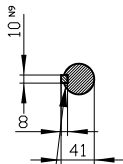
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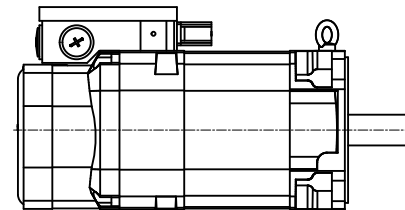
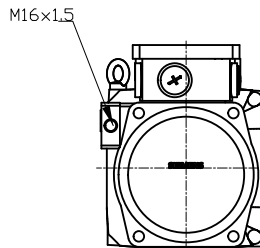
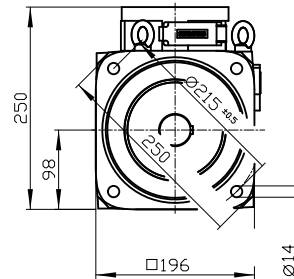
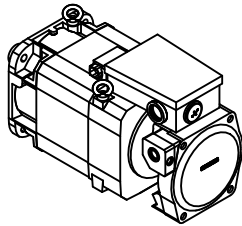
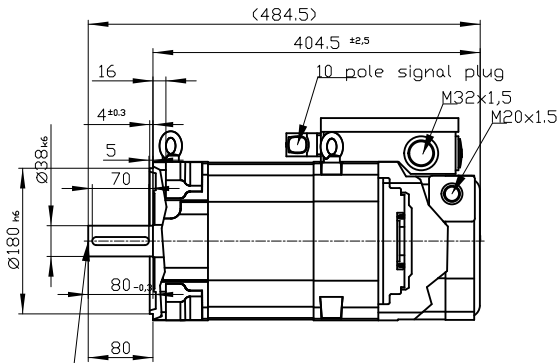
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Cada-drawing do not make any manual changes

DE - shaft extension
version with featherkey



deviation acc. to
DIN 6885 sheet 1

DIN 332 - DR M12



Type of construction: IM B5 (IM V1, IM V3) / Type of protection: IP55

		—	
Terminal box		gk813	1PH8103-1SM02-1LA1
Weight		5l kg	—
Unit		mm (in)	—
Date		4/12/23	—
SIEMENS AG			
not toleranced dimensions: ± 1		DT	